



Safety & Regulatory Information

Business PCs

Document Part Number: 312970-004

May 2005

This guide provides safety and regulatory information that is compliant with U.S., Canadian, and International regulations for the above products.

© Copyright 2003-2005 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

This document contains proprietary information that is protected by copyright.
No part of this document may be photocopied, reproduced, or translated to
another language without the prior written consent of Hewlett-Packard
Company.



WARNING: Text set off in this manner indicates that failure to follow
directions could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow
directions could result in damage to equipment or loss of information.

Safety & Regulatory Information

Business PCs

First Edition (February 2003)

Second Edition (May 2004)

Third Edition (November 2004)

Fourth Edition (May 2005)

Document Part Number: 312970-004

Contents

1 Agency Notices

Regulatory Compliance Identification Numbers.....	1-1
Federal Communications Commission Notice	1-1
Modifications	1-2
Cables	1-2
Declaration of Conformity for Products	
Marked with the FCC Logo (United States only).....	1-2
Canadian Notice	1-3
Avis Canadien.....	1-3
European Union Regulatory Notice	1-3
Notice for France and Italy for use of 2.4 GHz wireless communication:	1-4
Notice for products incorporating 5GHz Wireless LAN devices	1-5
Japanese Notice	1-5
Korean Notice	1-5
Energy Star Compliance	1-6
German Ergonomics Notice	1-6
Swedish Environmental Information.....	1-7
Laser Safety.....	1-7
CDRH Regulations.....	1-7
Compliance with International Regulations	1-7
Laser Product Label	1-8
Laser Information	1-8
Battery Replacement Notice.....	1-9

2 Power Cord Set Requirements

General Requirements.....	2-1
Japanese Power Cord Requirements	2-2

Agency Notices

Regulatory Compliance Identification Numbers

For the purpose of regulatory compliance certifications and identification, the computer has been assigned a unique series number. The series number can be found on the compliance label, generally on the bottom of the computer, along with all required approval markings and information. When requesting compliance information for this product, always refer to this series number. The series number should not be confused with the marketing name or model number of the product.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Relocate the receiving antenna of the radio or television.
- Increase the distance between the television or radio and the computer.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hewlett-Packard Company may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods in order to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity for Products Marked with the FCC Logo (United States only)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

For questions regarding the product, contact:

Hewlett-Packard Company
P. O. Box 692000, Mail Stop 530113
Houston, Texas 77269-2000

Or, call 1-800-HP-INVENT (1-800-474-6836).

For questions regarding this FCC declaration, contact:

Hewlett-Packard Company
P. O. Box 692000, Mail Stop 510101
Houston, Texas 77269-2000

Or, call (281) 514-3333.

To identify this product, refer to the part, series, or model number found on the product.

Canadian Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Union Regulatory Notice

This product complies with the following EU Directives:

- Low Voltage Directive 73/23/EEC
- EMC Directive 89/336/EEC



CE Compliance of this product is valid only if powered with the correct HP-provided and CE marked AC adapter.

If this product has telecommunication functionality, it also complies with the essential requirements of:

- R&TTE Directive 1999/5/EC

Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity issued by Hewlett-Packard for this product or product family.

This compliance is indicated by the following conformity marking placed on the product:



This marking is valid for non-Telecom products and EU harmonized Telecom products (e.g. Bluetooth).



XXXX* The image shows a circle containing a vertical exclamation mark, indicating a notified body number.

This marking is valid for EU non-harmonized Telecom products.

*Notified body number (used only if applicable - refer to the product label).

The telecommunications functionality of this product may be used in the following EU and EFTA countries:

Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

Notice for France and Italy for use of 2.4 GHz wireless communication:

Italy:

E'necessaria una concessione ministeriale anche per l'uso del prodotto. Verifici per favore con il proprio distributore o direttamente presso la Direzione Generale Pianificazione e Gestione Frequenze. License required for use. Verify with your dealer or directly with General Direction for Frequency Planning and Management (Direzione Generale Pianificazione e Gestione Frequenze).

France:

L'utilisation de cet équipement (2.4GHz Wireless LAN) est soumise à certaines restrictions: Cet équipement peut être utilisé à l'intérieur d'un bâtiment en utilisant toutes les fréquences de 2400 à 2483.5MHz (Chaîne 1-13). Pour une utilisation en environnement extérieur, vous

devez utiliser les fréquences comprises entre 2454-2483.5MHz (Chaîne 10-13). Pour les dernières restrictions, voir <http://www.art-telecom.fr>.

For 2.4 GHz Wireless LAN operation of this product certain restrictions apply: This product may be used indoor for the entire 2400-2483.5 MHz frequency band (channels 1-13). For outdoor use, only 2454-2483.5 MHz frequency band (channels 10-13) may be used. For the latest requirements, see <http://www.art-telecom.fr>.

Notice for products incorporating 5GHz Wireless LAN devices

Frequency availability for 802.11a or 802.11h Wireless LAN is not currently harmonized throughout the European Union. For compliance requirements, users should verify with their supplier, local HP office or Telecommunications authority.

Japanese Notice

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

Korean Notice

B급 기기 (가정용 정보통신기기)

이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든지역에서 사용할 수 있습니다.

Energy Star Compliance

HP business desktop products marked with the Energy Star Logo are compliant with the U.S. Environmental Protection Agency (EPA) Energy Star Computers Program. The EPA Energy Star Logo does not imply endorsement by the EPA. As an Energy Star Partner, Hewlett-Packard Company has determined the products marked with the Energy Star Logo meet the Energy Star guidelines for energy efficiency.

The Energy Star Computers Program was created by the EPA to promote energy efficiency and reduce air pollution through more energy-efficient equipment in homes, offices, and factories. HP products achieve this by reducing the power consumption when not being used.

The Power Management feature of the computer is compatible with any network operating system or environment that supports APM1.2. This means the users in those environments will not be disconnected from the network during the low-power operating state.

The Power Management feature, when used in conjunction with an external Energy Star compliant monitor, will support the power-down features of the monitor. The Power Management feature allows an external monitor to go into low-power mode when the energy save timeout occurs. To take advantage of this energy savings, the monitor Power Management feature has been preset to power down the monitor after 15 minutes of system inactivity.



CAUTION: Using the Energy Save Monitor feature with non-Energy Star compliant monitors may cause video distortion when the Energy Save timeout occurs.

German Ergonomics Notice

HP business desktop products, when combined with HP Brand keyboards and monitors that bear the “GS” approval mark, meet the requirements of ZH 1/618 (German Safety Regulations for Display Work Places in the Office Sector). The installation guides included with the monitor provide configuration information.

Swedish Environmental Information

For Swedish environmental information, visit the HP Web site at:
<http://www.hp.se/miljo>

Laser Safety

All HP systems equipped with a laser device comply with safety standards, including International Electrotechnical Commission (IEC) 825. With specific regard to the laser, the equipment complies with laser product performance standards set by government agencies as a Class 1 laser product. The product does not emit hazardous light; the beam is totally enclosed during all modes of customer operation and maintenance.



WARNING: To reduce the risk of exposure to hazardous radiation:

- Do not try to open the laser device enclosure. There are no user-serviceable components inside.
- Do not operate controls, make adjustments, or perform procedures to the laser device other than those specified herein.
- Allow only authorized HP service providers to repair the laser device.

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured from August 1, 1976. Compliance is mandatory for products marketed in the United States.

Compliance with International Regulations

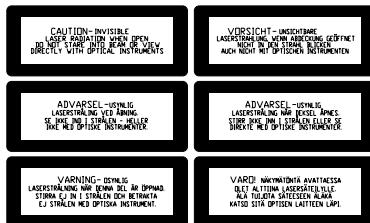
All systems equipped with CD-ROM drives comply with appropriate safety standards including IEC 825.

Laser Product Label

The following label or equivalent is located on the surface of laser products:



This label indicates that the product is classified as a CLASS 1 LASER PRODUCT. This label appears on a laser device installed in the product.



This label or similar may appear next to the Class 1 Laser Product label on the system.

Laser Information

- Laser Type: Semiconductor GaAIAs
- Wave Length: 780 +/- 35 nm
- Divergence Angle: 53.5 Degrees +/- 0.5 degrees
- Output Power: Less than 0.2 mW or 10,869 W·m⁻² sr⁻¹
- Polarization: Circular 0.25
- Numerical Aperture: 0.45 +/- 0.04

Battery Replacement Notice



WARNING: The computer contains an internal lithium manganese dioxide, vanadium pentoxide, or alkaline battery or battery pack. There is risk of fire and burns if the battery pack is not handled properly. To reduce the risk of personal injury:

- Do not attempt to recharge the battery.
- Do not expose to temperatures higher than 60° C (140° F).
- Do not disassemble, crush, puncture, short external contacts, or dispose of in fire or water.
- Replace only with the HP spare designated for this product.



Batteries, battery packs, and accumulators should not be disposed of together with the general household waste. In order to forward them to recycling or proper disposal, please use the public collection system or return them to HP, an authorized HP partner, or their agents.

Power Cord Set Requirements

The power supplies on some computers have external power switches. The voltage select switch feature on the computer permits it to operate from any line voltage between 100-120 or 220-240 volts AC. Power supplies on those computers that do not have external power switches are equipped with internal switches that sense the incoming voltage and automatically switch to the proper voltage.

The power cord set received with the computer meets the requirements for use in the country where you purchased the equipment.

Power cord sets for use in other countries must meet the requirements of the country where you use the computer. For more information on power cord set requirements, contact your authorized HP dealer, reseller, or service provider.

General Requirements

The requirements listed below are applicable to all countries:

1. The power cord must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be installed.
2. The power cord set must have a minimum current capacity of 10A (7A Japan only) and a nominal voltage rating of 125 or 250 volts AC, as required by each country's power system.
3. The diameter of the wire must be a minimum of 0.75 mm² or 18AWG, and the length of the cord must be between 1.8 m (6 feet) and 3.6 m (12 feet).

The power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.



WARNING: Do not operate this product with a damaged power cord set. If the power cord set is damaged in any manner, replace it immediately.

Japanese Power Cord Requirements

For use in Japan, use only the power cord received with this product.



CAUTION: Do not use the power cord received with this product on any other products.
